

Total number of printed pages – 4

B. Tech
CPMR 6203

Fourth Semester Examination – 2008

BASIC SHIP STRUCTURE

Full Marks – 70

Time : 3 Hours

Answer Question No. 1 which is compulsory
and any **five** from the rest.

The figures in the right-hand margin
indicate marks.



1. Answer the following questions : 2 × 10
- (a) What is the meaning of double bottom of a ship ?
- (b) Explain the term Length between Perpendicular LBP and show with help of line diagram.

- (c) Explain the term “free board” of a ship.
- (d) What are hawse pipe and sparring pipe in connection to anchor windlass ?
- (e) What is a collision bulkhead in a ship ?
- (f) Explain the term “Camber and Tumbel-home” with the help of a line diagram.
- (g) What is the meaning of “Super structure” of a vessel ?
- (h) What do you mean by a “Farecastle deck” of a ship ?
- (i) Explain the term “Transom stern” of a ship.
- (j) What is a Bow thrust unit ? Why it is required on ships ?

2. How ships are classified as per the uses. Enumerate them in detail. 10

P.T.O.

CPMR 6203

2

Contd.

3. What do you mean by stresses in ship's structure ? Explain the terms Bending, Shear, Hogging, Sagging, Racking, Pounding, Painting. 10
4. What do you mean by rivetting and welding ? Explain types of welding methods normally used. What are different testing methods used to check the welding ? 10
5. What do you mean by fore and construction of a ship ? What are the structure normally found on forward end of a ship ? 10
6. What is the meaning of Bulkhead of a ship ? Explain different types of bulkhead used in ships. How testing of bulkhead is done ? 10
7. Explain the term 'Keel' of a ship. Explain types of keels used in relation to ship structure with aid of diagrams ? 10

8. Explain different types of double bottom structures used in general during construction of a ship. Draw sketches. 10